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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,060	09/12/2003	Tadayoshi Okada	A35998-074224.0118	1995
21003	7590	01/14/2005	EXAMINER	
			KATCHEVES, BASIL S	
		ART UNIT		PAPER NUMBER
		3635		

DATE MAILED: 01/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.	OKADA ET AL.	
10/663,060	Examiner	Art Unit
Basil Katcheves	3635	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) Responsive to communication(s) filed on 12 September 2003.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) Claim(s) 10-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 10-18 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) Notice of References Cited (PTO-892)  
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.

- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) Notice of Informal Patent Application (PTO-152)  
6) Other: \_\_\_\_\_.

## DETAILED ACTION

Applicant has cancelled claims 1-9 and added new claims 10-18 in the preliminary amendment entered 9/12/03.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 10-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,412,913 to Daniels et al.

Regarding claim 10, Daniels discloses a high strength bolt connection (fig. 4), without fire protection, including at least one column (fig. 4: 100) and beams (fig. 4: 112). However, Daniels discloses the basic claim structure of the instant application but does not disclose specific component load bearing properties. Applicant fails to show criticality for specifically claimed load bearing properties, therefore it would have been an obvious design choice to use the dimensions such as specified in these claims for use in applications where specific load bearing properties are required.

Regarding claim 11, Daniels discloses the basic claim structure of the instant application but does not disclose specific load bearing force properties. Applicant fails to show criticality for specifically claimed load bearing force properties, therefore it

would have been an obvious design choice to use the dimensions such as specified in these claims.

Regarding claim 12, Daniels discloses the use of bolts and nuts (column 6, line 16, washers (column 6, line 19). Daniels also discloses the bolts as being hexagonal (fig. 1: 45).

Claim 13 is rejected for reasons cited in the rejection of claim 12. In addition, Daniels discloses the structure as made from steel (column 3, line 39). Applicant should note that steel has an inherently high temperature strength.

Regarding claim 14, Daniels discloses the structure as made from steel (column 3, line 39). Applicant should note that steel has an inherently high temperature strength.

Regarding claims 15-18, Daniels discloses the basic claim structure of the instant application but does not disclose specific load bearing dimensions of the bolts. Applicant fails to show criticality for specifically claimed load bearing bolt dimensions, therefore it would have been an obvious design choice to use the dimensions such as specified in these claims.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The cited patents listed on the included form PTO-892 further show the state of the art with respect to steel frames in general.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Basil Katcheves whose telephone number is (703) 306-0232. The examiner can normally be reached on Monday-Friday from 7:30 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Friedman, can be reached at (703) 308-0832.

  
Basil Katcheves

BK

1/11/05

Examiner, AU 3635